

Amendments to the Specification:

- 1) Please replace the paragraph under CROSS-REFERENCE TO RELATED APPLICATIONS at page 1 lines 2-4 with the following:

This application is a divisional of U.S. patent application 10/227,963 filed August 26, 2002, which claims priority to U.S. provisional application Serial No. 60/326,968 filed October 4, 2001, which is herein incorporated by reference.

- 2) Please replace the paragraph beginning at page 21 line 4 which starts with "Referring now to Fig. 2, . . ." with the following amended paragraph:

Referring now to FIG. 2, a system 100 for rotary fabricating a tubular sensor is illustrated wherein calendered green rubber sheets 101 and 102 ~~of green rubber~~ are drawn from rolls 111 and 112 respectively. The green rubber sheets 101 and 102 each have a release sheet of non-stick film such as polyethylene film in contact with one side of the green rubber sheet. The green rubber sheets 101 and 102 are slit to a desired predetermined width by being transferred around rolls 113, 114, respectively while being cut by knives 115 and 116, respectively. The green rubber sheets 101 and 102 are then sent through coating stations 121 and 122 respectively wherein conductive electrode coatings are applied to the surface of the green rubber sheets. The green rubber sheets 101 and 102 are thereafter sent to drying stations 123 and 124, respectively, wherein the fluid conductive electrode coatings are dried, or otherwise solidified or rendered into a non-fluid state, to form solid elastomeric conductive electrode green state coatings.

- 3) Please replace the paragraph beginning at page 24, line 7 which starts with “Finally, the tubular sensor 180...” with the following amended paragraph:

Finally, the tubular sensor 180 is conveyed to a cooling station ~~170~~ (not shown) and then to reel 175 onto which the tubular sensor is wound for storage and transport.

- 4) Please replace the paragraph beginning at page 25, line 10 which starts with “The coated sheet 101a...” with the following amended paragraph:

The coated green rubber sheet 101a is then optionally sent to preheating station 133a, wherein the sheet is warmed to a temperature of from about 110° F to about 250° F. Warming can be achieved by, for example, the use of radiant heat lamp 131a, a hot air blower, or by passing the sheets through an oven, or any other suitable method.

- 5) Please replace the paragraph beginning at page 29, line 6 which starts with “Referring now to FIG. 5A, ...” with the following amended paragraph:

Referring now to FIG. 5A, an elongated pressure actuated switching device 200a is illustrated wherein cover 210a is an arcuate shaped conductive green rubber, and base 220a is a flat layer of electrically insulative green rubber. The conductive electrode 240a on the upper, inside surface of the base 220a is a green rubber filled with graphite, graphite fibers and blowing agent. This conductive electrode 240a is initially in the form of a pre-formed ~~pre-foamed~~ green

rubber strip ~~240a~~ which is longitudinally pressure laminated to the green rubber base layer 220a. Conductive wires 250a and 260a are preferably installed together with the conductive electrode 240a ~~foam 260a~~, respectively, and extend lengthwise through the pressure actuated switching device 200 and provide terminal contacts for the conductive electrode cover 210a and the conductive electrode 240a which is expanded by vulcanization to form intrinsically conductive foam ~~240a~~, respectively. Vulcanizing cures the rubber, and chemically bonds all the interface surface while expanding the conductive foam. Wires 250a and 260a extend outside the pressure actuated switching device 200a to permit connection with an electrical circuit.